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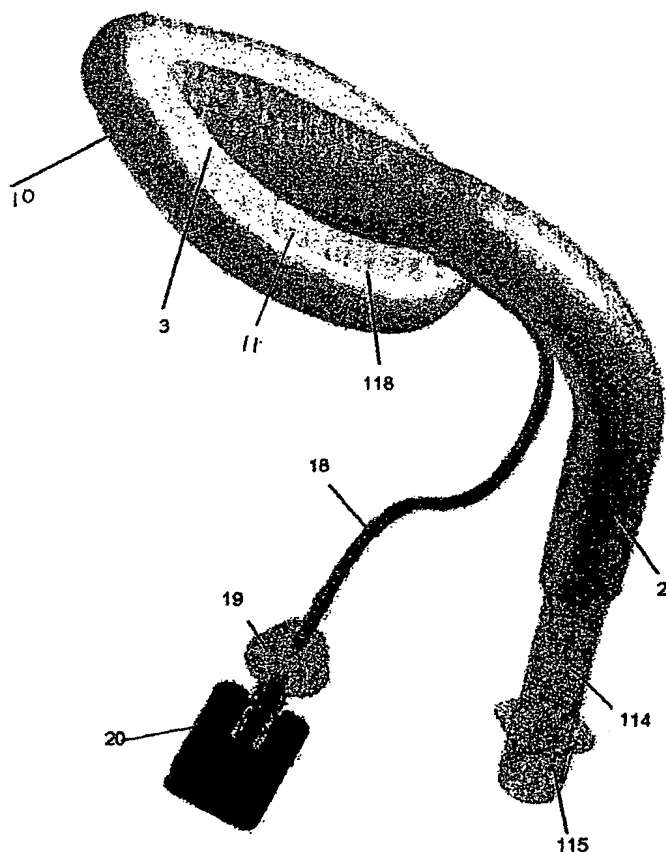
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(54) Title: A LARYNGEAL MASK AND A METHOD MANUFACTURING SAME



(57) Abstract: The invention relates to a laryngeal mask (1) comprising at least one airway tube (2) and a mask portion (3), which mask portion (3) comprises a top face (4) and a bottom face (5), said bottom face (5) comprising a lumen (6) that communicates with the tube (2) interior (7), and said top face (4) comprising a closed transition face (8), and said mask portion (3) being at least on the bottom face in the periphery delimited by an inflatable cuff (9), and said mask portion (3) comprising a joint throughout the entire internal circumference of the cuff (9), facing towards the lumen (6) and for providing a closed cuff. Hereby a product is provided which is formed integrally with regard to mask portion and airway tube portion thereby eliminating the risk that the two parts are separated in use.



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000260

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61M16/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/037790 A1 (BRAIN ARCHIBALD I J) 27 February 2003 (2003-02-27)	1,2,4,5, 7,9-12, 14,15, 17-20, 22,26, 27,30
A	page 5, right-hand column, paragraph 120 - page 10, right-hand column, paragraph 156 page 17, left-hand column, paragraph 203 page 18, right-hand column, paragraph 211; figure 28 ----- -/-	21, 23-25, 28,29

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000260

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 94/17848 A (BRAIN ARCHIBALD IAN JEREMY) 18 August 1994 (1994-08-18) page 7, line 1 - page 11, line 23; figure 4	1,2,4, 12, 18-20, 22,26,27
X	EP 1 219 316 A (SMITHS GROUP PLC) 3 July 2002 (2002-07-03) column 1, line 31 - column 2, line 36	1,2,4,5, 7,9,12, 18 19-27
A	EP 0 842 672 A (SMITHS INDUSTRIES PLC) 20 May 1998 (1998-05-20) column 2, line 54 - column 3, line 53; figures 1,4-6,9	1,4,9, 18,23-27
A	US 2002/112728 A1 (LANDUYT CHRISTOPHE VAN) 22 August 2002 (2002-08-22) page 1, right-hand column, paragraph 14 - page 2, left-hand column, paragraph 20; figure 1	1,9,12, 14,18
A	US 6 439 232 B1 (BRAIN ARCHIBALD IAN JEREMY) 27 August 2002 (2002-08-27) cited in the application column 15, paragraph 14 - paragraph 21	1,16,18, 27-29
X	US 6 422 239 B1 (COOK DANIEL J) 23 July 2002 (2002-07-23) column 5, line 54 - column 6, line 12; figures 4,5	28,29
A	EP 1 125 595 A (SMITHS GROUP PLC) 22 August 2001 (2001-08-22) column 2, line 38; figure 1	1,18,27
L	WO 01/62905 A (FANSLOW WILLIAM C III ; POINDEXTER KURT MATTHEW (US); BLACK ROY A (US)) 30 August 2001 (2001-08-30) L: cited document incorrect abstract	
A	& EP 1 259 595 A (IMMUNEX CORP) 27 November 2002 (2002-11-27) cited in the application	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK2004/000260

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 3, 6, 8
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 3, 6, 8

In dependent claims 2 and 3, the text "the inflatable part of the wall thickness of the cuff" has been interpreted as "the wallthickness of the inflatable part of the cuff".

Dependent claim 8 is formulated as being dependent from itself. Based on the features of the claim, it has been interpreted as though it was dependent from claim 3 (first occurrence of interval 111).

Dependent claims 3, 6 and 8 disclose ranges without specifying physical limits of those ranges. Without a limit to the claimed ranges, it is not possible to determine the extend of the claimed subject-matter or its support in the description.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-27, 30

a laryngeal mask, comprising:

- A) at least one airway tube
- B) a mask portion, delimited by
- C) a cuff, specified by:
 - C1) a circumferential closing joint
- D) parts A) and B) formed integrally

2. claims: 28, 29

A laryngeal mask, comprising:

- A) at least one airway tube
- B) a mask portion, delimited by
- C) a cuff, specified by:
 - C2) specific sealing properties of the cuff

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK2004/000260

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